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L9 and L8	1			

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IBM Technical Disclosure Bulletins

Search:

L10











Search History

DATE: Saturday, February 10, 2007 Purge Queries Printable Copy Create Case

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<u>L10</u>	L9 and 18		1	<u>L10</u>
<u>L9</u> .	L7 and (6-dEB)	•	61	<u>L9</u>
<u>L8</u>	kealey.in.		23	<u>L8</u>
<u>L7</u>	starter unit and (atoAD)		31770	<u>L7</u>
<u>L6</u>	atoC		87	<u>L6</u>
<u>L5</u>	atoAD		0	<u>L5</u>
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<u>L4</u>	L2 and (atoC)		1	<u>L4</u>
<u>L3</u>	L2 and (atoAD)		1	<u>L3</u>
<u>L2</u>	20040096946		1	<u>L2</u>
DB=US	SPT; PLUR=YES; OP=O	R		
<u>L1</u>	6627427.pn.		1	<u>L1</u>

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☐ 1. Documen	t ID: US 7011959 B1				
L10: Entry 1 of 1		File: USPT		Mar 14, 200)6
US-PAT-NO: 7011959 DOCUMENT-IDENTIFIER	: US 7011959 B1	·			
TITLE: Heterologous	production of polyk	etides			
DATE-ISSUED: March	14, 2006				
INVENTOR-INFORMATIO	N :			•	
NAME ·	CITY	STATE	ZIP CODE	COUNTRY	
Santi; Daniel	San Francisco	CA		US	
Peck; Larry	San Carlos	CA		us	
Dayem; Linda	Belmont	CA		US	
<u>Kealey</u> ; James	San Rafael	. CA	ŧ	US	
US-CL-CURRENT: 435/	76; <u>435</u> / <u>252.33</u>			-	
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FILE 'HOME' ENTERED AT 15:26:39 ON 10 FEB 2007

=> file medline, biosis

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION

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FILE 'BIOSIS' ENTERED AT 15:27:08 ON 10 FEB 2007 Copyright (c) 2007 The Thomson Corporation

=> s (6-dEB) and (atoAD)

L1 2 (6-DEB) AND (ATOAD)

=> d l1 ti abs ibib tot

L1 ANSWER 1 OF 2 MEDLINE on STN

TI 6-Deoxyerythronolide B analogue production in Escherichia coli through metabolic pathway engineering.

AB The erythromycin precursor polyketide 6-deoxyerythronolide B (6dEB) is produced from one propionyl-CoA starter unit and six (2S)-methylmalonyl-CoA extender units. In vitro studies have previously demonstrated that the loading module of 6-deoxyerythronolide B synthase (DEBS) exhibits relaxed substrate specificity and is able to accept butyryl-CoA, leading to the production of polyketides with butyrate starter units. We have shown that we can produce butyryl-CoA at levels of up to 50% of the total CoA pool in Escherichia coli cells that overexpress the acetoacetyl-CoA:acetyl-CoA transferase, AtoAD (EC 2.8.3.8), in media supplemented with butyrate. The DEBS polyketide synthase (PKS) used butyryl-CoA and methylmalonyl-CoA supplied in vivo by the AtoAD and methylmalonyl-CoA mutase pathways, respectively, to produce 15-methyl-6-dEB. Priming DEBS with endogenous butyryl-CoA affords an alternative and more direct route to 15-Me-6-dEB than that provided by the chemobiosynthesis method [Jacobsen, J. R., et al. (1997) Science 277, 367-369], which relies on priming a mutant DEBS with an exogenously fed diketide thioester. The approach described here demonstrates the utility of metabolic engineering in E. coli to introduce precursor pathways for the production of novel polyketides.

ACCESSION NUMBER: 2003565219 MEDLINE DOCUMENT NUMBER: PubMed ID: 14640703

TITLE: 6-Deoxyerythronolide B analogue production in Escherichia

coli through metabolic pathway engineering.

AUTHOR: Kennedy Jonathan; Murli Sumati; Kealey James T

CORPORATE SOURCE: Kosan Biosciences, Inc., 3832 Bay Center Place, Hayward,

California 94545, USA.

SOURCE: Biochemistry, (2003 Dec 9) Vol. 42, No. 48, pp. 14342-8.

Journal code: 0370623. ISSN: 0006-2960.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200403

ENTRY DATE: Entered STN: 16 Dec 2003

Last Updated on STN: 18 Mar 2004 Entered Medline: 17 Mar 2004

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6-Deoxyerythronolide B analogue production in Escherichia coli through
    metabolic pathway engineering.
     The erythromycin precursor polyketide 6-deoxyerythronolide B (6-
AB
     dEB) is produced from one propionyl-CoA starter unit and six
     (2S) -methylmalonyl-CoA extender units. In vitro studies have previously
     demonstrated that the loading module of 6-deoxyerythronolide B synthase
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     in media supplemented with butyrate. The DEBS polyketide synthase (PKS)
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     (Jacobsen, J. R., et al. (1997) Science 277, 367-369), which relies on
    priming a mutant DEBS with an exogenously fed diketide thioester. The
     approach described here demonstrates the utility of metabolic engineering
     in E. coli to introduce precursor pathways for the production of novel
    polyketides.
ACCESSION NUMBER:
                    2004:66331 BIOSIS
DOCUMENT NUMBER:
                    PREV200400067066
                    6-Deoxyerythronolide B analogue production in Escherichia
TITLE:
                    coli through metabolic pathway engineering.
```

AUTHOR(S): Kennedy, Jonathan; Murli, Sumati; Kealey, James T. [Reprint

Author]

CORPORATE SOURCE: Kosan Biosciences, Inc., 3832 Bay Center Place, Hayward,

CA, 94545, USA kealey@kosan.com

SOURCE: Biochemistry, (December 9 2003) Vol. 42, No. 48, pp.

14342-14348. print.

ISSN: 0006-2960 (ISSN print).

DOCUMENT TYPE: Article
LANGUAGE: English

ENTRY DATE: Entered STN: 28 Jan 2004

Last Updated on STN: 28 Jan 2004

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=> e kealey, j/au
E1
                    KEALEY W DAVID C/AU
             1
                   KEALEY W F/AU
E2
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             0 --> KEALEY, J/AU
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                   KEALHEIM G/AU
F.4
                   KEALHOFER CATHERINE/AU
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                   KEALHOFER L/AU
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E7
                   KEALHOFER LISA/AU
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E11
E12
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                   KEALL C L/AU
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FILE 'MEDLINE, BIOSIS' ENTERED AT 15:27:08 ON 10 FEB 2007
L1 2 S (6-DEB) AND (ATOAD)
E KEALEY, J/AU
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=> s atoC

L2 50 ATOC

=> s atoAD

L3 3 ATOAD

=> s 12 and 13

L4 0 L2 AND L3

=> s 12 and polyketide

L5 0 L2 AND POLYKETIDE

=> s 12 and host cell

L6 0 L2 AND HOST CELL

=> d l3 ti abs ibib tot

L3 ANSWER 1 OF 3 MEDLINE on STN

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Journal code: 0370623. ISSN: 0006-2960.

PUB. COUNTRY:

United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

200403

ENTRY DATE:

Entered STN: 16 Dec 2003

Last Updated on STN: 18 Mar 2004 Entered Medline: 17 Mar 2004

L3 ANSWER 2 OF 3 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN Manipulation of yeast CoA pools: Introduction of pathway for butyryl-CoA synthesis.

ACCESSION NUMBER:

2005:484954 BIOSIS

DOCUMENT NUMBER:

PREV200510259209

TITLE:

Manipulation of yeast CoA pools: Introduction of pathway

for butyryl-CoA synthesis.

AUTHOR (S):

Lee, K. Michael [Reprint Author]; Kealey, James T.; Da

Silva, Nancy A.

CORPORATE SOURCE: Univ Calif Irvine, Irvine, CA 92697 USA

kklee@uci.edu

SOURCE: Abstracts of Papers American Chemical Society, (MAR 13

2005) Vol. 229, No. Part 1, pp. U189-U190. Meeting Info.: 229th National Meeting of the

American-Chemical-Society. San Diego, CA, USA. March 13

-17, 2005. Amer Chem Soc.

CODEN: ACSRAL. ISSN: 0065-7727.

DOCUMENT TYPE: Conference; (Meeting)

Conference; Abstract; (Meeting Abstract)

LANGUAGE: English

ENTRY DATE: Entered STN: 16 Nov 2005

Last Updated on STN: 16 Nov 2005

L3 ANSWER 3 OF 3 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN

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metabolic pathway engineering.

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ACCESSION NUMBER: 2004:66331 BIOSIS DOCUMENT NUMBER: PREV200400067066

TITLE: 6-Deoxyerythronolide B analogue production in Escherichia

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AUTHOR(S): Kennedy, Jonathan; Murli, Sumati; Kealey, James T. [Reprint

Author]

CORPORATE SOURCE: Kosan Biosciences, Inc., 3832 Bay Center Place, Hayward,

CA, 94545, USA kealey@kosan.com

SOURCE: Biochemistry, (December 9 2003) Vol. 42, No. 48, pp.

14342-14348. print.

ISSN: 0006-2960 (ISSN print).

DOCUMENT TYPE: Article LANGUAGE: English

ENTRY DATE: Entered STN: 28 Jan 2004

Last Updated on STN: 28 Jan 2004

=> d his

L1

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FILE 'MEDLINE, BIOSIS' ENTERED AT 15:27:08 ON 10 FEB 2007

2 S (6-DEB) AND (ATOAD)

E KEALEY, J/AU

L2 50 S ATOC L3 3 S ATOAD L4 0 S L2 AND L3 Welcome to STN International! Enter x:x

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                 MEDLINE updated in preparation for 2007 reload
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                 CA/CAplus updated with revised CAS roles
NEWS 23 JAN 22
                 CA/CAplus enhanced with patent applications from India
NEWS 24 JAN 29
                 PHAR reloaded with new search and display fields
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                 multiple databases
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NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

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L5 0 S L2 AND POLYKETIDE L6 0 S L2 AND HOST CELL

=> s l2 and starter unit

L7 0 L2 AND STARTER UNIT